	National and State Resource Concerns and Quality Criteria					
National Natural National Natural * Assessment Tools for						
Resource Concern	Description of Concern	Quality Criteria	State Quality Criteria	Measurement Units	Quality Criteria Evaluation	
Soil Erosion - Sheet and Rill	Detachment and transport of soil particles caused by rainfall splash and runoff degrade soil quality.	Sheet and rill erosion does not exceed the Soil Loss Tolerance "T".		Tons/Acre/Year – average annual tons of erosion reduced per acre for the field or planning area/unit	Water Erosion Prediction Tools (RUSLE2)	
Soil Erosion - Ephemeral Gully	Small channels caused by surface water runoff degrade soil quality and tend to increase in size. On cropland, they can be obscured by heavy tillage.	Surface water runoff is controlled sufficiently to stabilize the small channels and prevent reoccurrence of new channels.		Tons/Year – average annual tons of erosion reduced for the field or planning area/unit	Volume calculation (L x W x D x 96lbs/ft ³ ÷ 2000 = Tons)	
Soil Erosion - Classic Gully	Deep, permanent channels caused by the convergence of surface runoff degrade soil quality. They enlarge progressively by headcutting and lateral widening.	Surface water runoff is controlled sufficiently to stop progression of headcutting and widening.	SAME AS NATIONAL	Tons/Year – average annual tons of erosion reduced for the field or planning area/unit	Volume calculation (L x W x D x 96lbs/ft ³ ÷ 2000 = Tons)	
Soil Erosion - Streambank	Accelerated loss of streambank soils restricts land and water use and management.	loss does not exceed a level commensurate with upstream land use and normal geomorphological processes on site.	Accelerated stream bank soil loss does not exceed a level commensurate with upstream land use and normal geomorphologic processes on site. The stream bank is stabilized (80% or more is vegetated or mechanically treated).	Tons/Year – average annual tons of erosion reduced for the field or planning area/unit	Volume calculation (L x W x D x 96lbs/ft ³ ÷ 2000 = Tons)	

	National and State Resource Concerns and Quality Criteria SOIL					
National Natural Resource Concern	Description of Concern	Quality Criteria	State Quality Criteria	Measurement Units	* Assessment Tools for Quality Criteria Evaluation	
Soil Erosion - Mass Movement	Soil slippage, landslides, or slope failure, normally on hillsides, result in large volumes of soil movement	that the mass movement of soil material does not exceed naturally occurring rates.	or slips are prevented or minimized so that the mass movement of soil material does not exceed naturally occurring rates. Sites are stabilized and revegetated. Livestock/and equipment is excluded until permanent vegetation is established.	reduced for the field or planning area/unit	Volume calculation (L x W x D x 96lbs/ft ³ ÷ 2000 = Tons)	
Soil Erosion – Road, Road Sides and Construction Sites	Soil loss occurs on areas left unprotected during or after road building and/or construction activities. Soil organic matter has or will	road building and construction activities. Soil Conditioning Index is	protected from soil loss during and after road building and construction activities. Off-site effects of erosion or sedimentation is eliminated. Soil Conditioning Index	Tons/Year – average annual tons of erosion reduced for the field or planning area/unit Soil Conditioning Index	Water Erosion Prediction Tools (RUSLE2) for sheet and rill erosion OR Volume calculation (L x W x D x 96lbs/ft3 ÷ 2000 = Tons) Soil Conditioning Index within	
Organic Matter Depletion	diminish to a level that degrades soil quality.	positive.	is positive.	improvement – positive improvement in index for the field or planning area/unit.	RUSLE2	
Soil Condition - Compaction	Compressed soil particles and aggregates caused by livestock or mechanical compaction adversely affect plant-soil-moisture relationships.	Mechanically compacted soils are renovated sufficiently to restore plant root growth and/or water movement.	Mechanically compacted soils are renovated sufficiently to restore plant root growth and/or water movement. Livestock is excluded from the area.	Non Measurable	Documented visual assessment of plant root systems (e.g. photographs, Conservation Assistance Notes, LTP 300-4, etc.)	

	National and State Resource Concerns and Quality Criteria					
SOIL						
National Natural Resource Concern	Description of Concern	Quality Criteria	State Quality Criteria	Measurement Units	* Assessment Tools for Quality Criteria Evaluation	
Soil Condition – Contaminants: Animal Waste and Other Organics – N	applied animal waste and other	Nitrogen nutrient application levels do not exceed soil storage/plant uptake capacities based on soil test recommendations and risk analysis results.		Pounds/Acre/Year – average annual pounds of nitrogen (N) reduced per acre for the field or planning area/unit	Presidedress Nitrogen Test (PSNAT) - corn only OR 590 Nutrient Budget Worksheets in combination with the client application records/history	
Soil Condition – Contaminants: Animal Waste and Other Organics – P	use of the land.	Phosphorus nutrient application levels do not exceed soil storage/plant uptake capacities based on soil test recommendations and risk analysis results.		of phosphorus (P) reduced per acre for the field or planning area/unit	Soil test or lab analysis and client application records/history OR Phosphorus Index for the State of WV - Potomac Valley Only	
Soil Condition – Contaminants: Commercial Fertilizer – N		Soil nutrient levels of nitrogen do not exceed crop needs based on realistic yield goals and appropriate pH levels are maintained.		Pounds/Acre/Year – average annual pounds of nitrogen (N) reduced per acre for the field or planning area/unit.	Documented client application records/history	
Soil Condition – Contaminants: Commercial Fertilizer – P		phosphorus do not exceed crop needs based on realistic	Soil nutrient levels of phosphorus do not exceed crop needs based on realistic yield goals and appropriate pH levels are maintained. P values do not exceed 80lbs. for the full crop rotation.	of phosphorus (P) reduced per acre for the field or planning area/unit.	Soil test or lab analysis and client application records/history	

National and State Resource Concerns and Quality Criteria SOIL					
National Natural Resource Concern	Description of Concern	Quality Criteria	State Quality Criteria	Measurement Units	* Assessment Tools for Quality Criteria Evaluation
Soil Condition - Contaminants - Residual Pesticides	have an adverse effect on non- target plants and animals.	Pesticides are applied, stored, handled, and disposed of so that residues in the soil do not adversely affect non-target plants and animals.	SAME AS NATIONAL	Non Measurable	Documentation of conditions or adverse effects on non-target plants and/or animals, etc.
Soil Condition - Damage from Soil Deposition	or restricts land use/management or adversely	Sediment deposition is sufficiently reduced to maintain desired land use/management and ecological processes.			RUSLE2 coupled with sediment deposition calculations OR Area calculation

^{*} Assessment tools shown are the principle tool(s) used in determining the presence or absence of this resource concern. **If a particular resource concern is selected, documentation of the use and/or application of the tool(s) is required.** Other tools may be available that provide additional data or supporting information.